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Hiroaki Saito, Masaru Tomita August 1988 Proceedings of the 12th conference on Computational linguistics -  Volume 2  Publisher: Association for Computational Linguistics  Full text available: pdf(580.65 KB) Additional Information: full citation, abstract, references, citings
This paper describes a method to parse and understand a "noisy" sentence that possibly includes errors caused by a speech recognition device. Our parser is connected to a speech recognition device which takes a continuously spoken sentence in Japanese and produces a sequence of phonemes. The output sequence of phonemes can quite possibly include errors: altered phonemes, extra phonemes and missing phonemes. The task is to parse the noisy phoneme sequence and understand the meaning of the origina
182 A system for creating and manipulating generalized wordclass transition matrices  from large labelled text-corpora  Wilfried Bloemberg, Michael Kesselheim  August 1988 Proceedings of the 12th conference on Computational linguistics -  Volume 1
Publisher: Association for Computational Linguistics Full text available: pdf(398.65 KB) Additional Information: full citation, abstract
This paper deals with the training phase of a Markov-type linguistic model that is based on transition probabilities between pairs and triplets of syntactic categories. To determine the optimal level of detail for a set of syntactic classes we developed a system that uses a set-theoretical formalism to define such sets and has some measures to compare and optimize them individually. In section two we describe the optimization problem (in terms of prediction, information and economy requirements)
183 Linguistic processing using a dependency structure grammar: for speech recognition and understanding Sho-ichi Matsunaga, Masaki Kohda August 1988 Proceedings of the 12th conference on Computational linguistics - Volume 1
Publisher: Association for Computational Linguistics  Full text available: pdf(557.15 KB) Additional Information: full citation, abstract, references, citings
This paper proposes an efficient linguistic processing strategy for speech recognition and understanding using a dependency structure grammar. The strategy includes parsing and

phrase prediction algorithms. After speech processing and phrase recognition based on phoneme recognition, the parser extracts the sentence with the best likelihood taking account of the phonetic likelihood of phrase candidates and the linguistic likelihood of the semantic inter-phrase dependency relationships. A fast par ...

June 1988 Journal of the ACM (JACM), Volume 35 Issue 3  Publisher: ACM Press  Full text available: pdf(1.61 MB)  Anew algorithm for the hierarchical aggregation of singularly perturbed finite-state Markov processes is derived. The approach taken bridges the gap between conceptually simple results for a relatively restricted class of processes and the significantly more complex results for the general case. The critical role played by (almost) transient states is exposed, resulting in a straightforward algorithm for the construction of a sequence of aggregate generators associated with various time sc							
June 1988 Journal of the ACM (JACM), Volume 35 Issue 3  Publisher: ACM Press  Full text available: pdf(1.61 MB)  Anew algorithm for the hierarchical aggregation of singularly perturbed finite-state Markov processes is derived. The approach taken bridges the gap between conceptually simple results for a relatively restricted class of processes and the significantly more complex results for the general case. The critical role played by (almost) transient states is exposed, resulting in a straightforward algorithm for the construction of a sequence of aggregate generators associated with various time sc							
Publisher: ACM Press  Full text available: pdf(1.61 MB)  Additional Information: full citation, abstract, references, citings, index terms, review  A new algorithm for the hierarchical aggregation of singularly perturbed finite-state Markov processes is derived. The approach taken bridges the gap between conceptually simple results for a relatively restricted class of processes and the significantly more complex results for the general case. The critical role played by (almost) transient states is exposed, resulting in a straightforward algorithm for the construction of a sequence of aggregate generators associated with various time sc							
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185 On the problem of entimizing data transfers for complex memory systems							
199 Off the problem of obtituizing data transfers for complex memory systems							
K. Gallivan, W. Jalby, D. Gannon  June 1988 Proceedings of the 2nd international conference on Supercomputing							
June 1988 Journal of the ACM (JACM), Volume 35 Issue 3  Publisher: ACM Press  Full text available: pdf(1.61 MB)  A new algorithm for the hierarchical aggregation of singularly perturbed finite-state Markov processes is derived. The approach taken bridges the gap between conceptually simple results for a relatively restricted class of processes and the significantly more complex results for the general case. The critical role played by (almost) transient states is exposed, resulting in a straightforward algorithm for the construction of a sequence of aggregate generators associated with various time sc  185 On the problem of optimizing data transfers for complex memory systems  K. Gallivan, W. Jalby, D. Gannon  June 1988 Proceedings of the 2nd international conference on Supercomputing  Publisher: ACM Press  Full text available: pdf(1.58 MB)  Additional Information: full citation, abstract, references, citings, index terms  Parallel supercomputers architectures with complex memory hierarchies or distributed memory systems have become very common. Unfortunately, the problems associated with restructuring software to take advantage of these memory systems are not easily solved. This paper presents an overview of some of the mathematical issues behind several of these problems and attempts to give a brief look at some of the potential solutions.  186 The correction of ill-formed input using history-based expectation with applications to speech understanding  Pamela K. Fink, Alan W. Biermann  January 1986 Computational Linguistics, Volume 12 Issue 1  Publisher: MIT Press  Full text available: pdf(1.74 MB)  Additional Information: full citation, abstract, references, citings  Publisher: MIT Press  Full text available: pdf(1.14 MB)  Additional Information full citation and tracking algorithm is presented along with a described that acquires dialogue acquisition and tracking algorithm is presented along with a described hat show the							
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memory systems have become very common. Unfortunately, the problems associated with restructuring software to take advantage of these memory systems are not easily solved. This paper presents an overview of some of the mathematical issues behind several of these problems and attempts to give a brief look at some of the potential							
186 The correction of ill-formed input using history-based expectation with applications to							
speech understanding							
Pamela K. Fink, Alan W. Biermann							
January 1986 Computational Linguistics, Volume 12 Issue 1  Publisher: MIT Press							
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patterns in typical usage and uses these patterns to predict new inputs. Error correction is done by strongly biasing parsing toward expected meanings unless clear evidence from the input shows the current sentence is not expected. A dialogue acquisition and tracking algorithm is presented along with a description of its implementation in a voice interactive							
187 Natural language with discrete speech as a mode for human-to-machine							
Alan W. Biermann, Robert D. Rodman, David C. Rubin, J. Francis Heidlage							
June 1985 Communications of the ACM, Volume 28 Issue 6  Publisher: ACM Press							

Full text available: pdf(1.04 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

A voice interactive natural language system, which allows users to solve problems with spoken English commands, has been constructed. The system utilizes a commercially available discrete speech recognizer which requires that each word be followed by approximately a 300 millisecond pause. In a test of the system, subjects were able to learn its use after about two hours of training. The system correctly processed about 77 percent of the over 6000 input sentences spoken in problem-solving se ...

188 Operational evaluation modeling of automatic speaker verification systems David E. Crabbs, John R. Clymer

January 1984 Proceedings of the 16th conference on Winter simulation

Publisher: IEEE Press

Full text available: pdf(683.07 KB) Additional Information: full citation, abstract, references, index terms

This study uses operational evaluation techniques to model a system which processes human speech to verify the identity persons seeking access to a facility resource. The system consists of hardware and software for accepting analog speech; extracting time, frequency, and amplitude characteristics; producing compact digital templates containing the features for speaker identification; and cross-referencing templates with reference patterns establish the degree of similarity between utterenc ...

189 Effect of font and medium on recognition/confusion

S. M. Gupta, L. H. Geyer, J. A. Maalouf

December 1983 Proceedings of the SIGCHI conference on Human Factors in **Computing Systems** 

Publisher: ACM Press

Full text available: pdf(332.01 KB) Additional Information: full citation, abstract, references, index terms

Systematic differences in recognition/confusion due to font variation is estimated by using confusion matrices of the full 26 capital letters of the English alphabet in 5 × 7 dot matrix font and "Keepsake" conventional stroke font. Average correct recognition was controlled to 50% by limiting brightness and duration of tachistoscopic displays for each font to individually determined levels for each of the four subjects. Each stimulus symbol was presented 45 times to each s ...

190 Speech recognition at two field sites

A. Rollins, B. Constantine, S. Baker

December 1983 Proceedings of the SIGCHI conference on Human Factors in Computing Systems

Publisher: ACM Press

Full text available: pdf(486.28 KB)

Additional Information: full citation, abstract, references, citings, index terms

The performance of two speech recognition systems installed at two field sites was analyzed. The speech systems were part of larger computer systems that were performing real functions in industrial environments. The two sites appeared to be polarized in terms of expected suitability for speech recognition. The variables looked at included task complexity, memory load, requirements for verification and error correction, vocabulary and syntax, microphone, operator experience and complexity o ...

191 The k-distribution of generalized feedback shift register pseudorandom numbers

M. Fushimi, S. Tezuka

July 1983 Communications of the ACM, Volume 26 Issue 7

Publisher: ACM Press

Full text available: pdf(837.52 KB)

Additional Information: full citation, abstract, references, citings, index terms

A necessary and sufficient condition is established for the generalized feedback shift

register (GFSR) sequence introduced by Lewis and Payne to be k-distributed. Based upon the theorem, a theoretical test for k-distributivity is proposed and performed in a reasonable amount of computer time, even for k = 16 and a high degree of resolution (for which statistical tests are impossible because of the astronomical amount of computer time required). For the special class of GFSR generato ...

Keywords: K-distribution, M-sequences, feedback shift registers, linear computation on GF(2)

192 Speech analysis: A finite-state parser for use in speech recognition Kenneth W. Church

June 1983 Proceedings of the 21st annual meeting on Association for Computational Linauistics

Publisher: Association for Computational Linguistics

Full text available: pdf(494.32 KB)

Additional Information: full citation, abstract, references, citings

This paper is divided into two parts. The first section motivates the application of finitestate parsing techniques at the phonetic level in order to exploit certain classes of contextual constraints. In the second section, the parsing framework is extended in order to account for 'feature spreading' (e.g., agreement and co-articulation) in a natural way.

193 Composing letters with a simulated listening typewriter

John D. Gould, John Conti, Todd Hovanyecz

April 1983 Communications of the ACM, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(1.54 MB)

Additional Information: full citation, abstract, references, citings, index terms

With a listening typewriter, what an author says would be automatically recognized and displayed in front of him or her. However, speech recognition is not yet advanced enough to provide people with a reliable listening typewriter. An aim of our experiments was to determine if an imperfect listening typewriter would be useful for composing letters. Participants dictated letters, either in isolated words or in consecutive word speech. They did this with simulations of listening typew ...

Keywords: listening typewriter

194 Speech interfaces: Interactive natural language problem solving: a pragmatic approach

A. Biermann, R. Rodman, B. Ballard, T. Betancourt, G. Bilbro, H. Deas, L. Fineman, P. Fink, K. Gilbert, D. Gregory, F. Heidlage

February 1983 Proceedings of the first conference on Applied natural language processing

Publisher: Association for Computational Linguistics

Publisher Site

Full text available: pdf(925.60 KB)

Additional Information: full citation, abstract, references, citings

A class of natural language processors is described which allow a user to display objects of interest on a computer terminal and manipulate them via typed or spoken English sentences. This paper concerns itself with the implementation of the voice input facility using an automatic speech recognizer, and the touch input facility using a touch sensitive screen. To overcome the high error rates of the speech recognizer under conditions of actual problem solving in natural language, error correction ...

	Approximate String Matching	
<b>③</b>	Patrick A. V. Hall, Geoff R. Dowling December 1980 <b>ACM Computing Surveys (CSUR)</b> , Volume 12 Issue 4	
	Publisher: ACM Press	
	Full text available: pdf(2.06 MB) Additional Information: full citation, references, citings, index terms	
106	Information, and ab recognition: A trial of language toxt input system using speech	
130	Informatics: speech recognition: A trial of Japanese text input system using speech	
	recognition  K. Shirai, Y. Fukazawa, T. Matzui, H. Matzuura  September 1980 Proceedings of the 8th conference on Computational linguistics	
	Publisher: Association for Computational Linguistics	
	Full text available: pdf(725.58 KB) Additional Information: full citation, references	
407		$\Box$
٠.	An Improved Context-Free Recognizer	
<b>②</b>	Susan L. Graham, Michael Harrison and Walter L. Ruzzo  July 1980 ACM Transactions on Programming Languages and Systems (TOPLAS),  Volume 2 Issue 3	
	Publisher: ACM Press	
	Full text available: pdf(2.79 MB)  Additional Information: full citation, abstract, references, citings, index terms	
	A new algorithm for recognizing and parsing arbitrary context-free languages is presented, and several new results are given on the computational complexity of these problems. The new algorithm is of both practical and theoretical interest. It is conceptually simple and allows a variety of efficient implementations, which are worked out in detail. Two versions are given which run in faster than cubic time. Surprisingly close connections between the Cocke-Kasami-Younger and Earley algorithms	
	The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve	
٨	Uncertainty	
~	Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy June 1980 <b>ACM Computing Surveys (CSUR)</b> , Volume 12 Issue 2	
	Publisher: ACM Press	
	Full text available: pdf(3.83 MB) Additional Information: full citation, references, citings, index terms	
199	Toward natural language computation	
	Alan W. Biermann, Bruce W. Ballard April 1980 Computational Linguistics, Volume 6 Issue 2	
	Publisher: MIT Press	
	Full text available: Additional Information: full citation, abstract, references, citings	
	Publisher Site	
	A computer programming system called the "Natural Language Computer" (NLC) is described which allows a user to type English commands while watching them executed on sample data appearing on a display screen. Direct visual feedback enables the user to detect most misinterpretation errors as they are made so that incorrect or ambiguous commands can be retyped or clarified immediately. A sequence of correctly executed commands may be given a name and used as a subroutine, thus extending the set of	

## 200 Numerical computations: its nature and research directions



J. R. Rice, C. W. Gear, J. Ortega, B. Parlett, M. Schultz, L. F. Shampine, P. Wolfe, J. F. Traub February 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue si-1

Publisher: ACM Press

Full text available: pdf(4.43 MB)

Additional Information: full citation, abstract, references

This report on research in numerical computation is part of the Computer Science and Engineering Research Study (COSERS) which is aimed at technically educated people outside the Computer Science field. This goal led the panel to face many difficult choices between precise, but excessively technical, descriptions and looser, but more accessible expositions. The panel hopes that all readers will keep this in mind.

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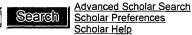
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7	BRS	L9	0	ibm.as. and (matrix same confusibility)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:06
8	BRS	L10	2	(matrix same confusibility)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:07
9	BRS	L11	0	(matrix same confusibility).clm.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:07
10	BRS	L12	0	(matrix sand confusibility).clm.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:07

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11	BRS	L13	0	(matrix and confusibility).clm.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:07
12	BRS	L14	0	(confusibility).clm.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:07
13	BRS	L15	2	(confusibility) same matrix	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:07
14	BRS	L16	13	(confusibility) same speech	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:07
15	BRS	L17	809	704/251.ccls.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	2006/08/22 16:27



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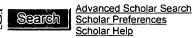
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